BYU | CIVIL & ENVIRONMENTAL ENGINEERING
IRA A. FULTON COLLEGE

CAPSTONE

Project Status Report: CEEn-2018CPST-007   **Report Date: October 29, 2018**

Team Members: Hanna Opdahl, Nicole Hastings, Ryan Smart, Daniel Fiso

Project Title: Woodland Hills Snow-Runoff Drainage Options

1) Summary of technical/non-technical challenges encountered

Difficulties from this week include that the team has neglected to complete ESRI tutorials as planned in previous weeks. Other challenges involve using the ArcGIS software, including incompatibility between KML files and ArcGIS 10.6 and between the citrix receiver and personal computers. Using ArcGIS on a personal computer through citrix was extremely slow, delaying the map processing. Finally, once data was uploaded to the basemap, the team encountered problems with knowing how to proceed in finding stream flow data.

2) Team approaches & resolutions to overcome challenges

This week we made various plans to improve as a team and get the project moving in the right direction. We set up a meeting with Dr. Ames to learn more about how to use ArcGIS Pro and what to do with our delineated water sheds. He recommended we each install ArcGIS Pro on our individual computers, as it will help to run the software faster. We also created a team scoreboard to help keep each team member more accountable for their assigned tasks. Lastly, we scheduled a site visit, with the hopes of meeting members of the city council and to see areas of interest. Daniel was assigned to send an email to Paul and Corbett to arrange the meeting.

3) Status of challenge resolutions & potential project impact

We converted the watershed KML file into a polygon layer in ArcGIS Pro. By converting these watershed files, makes it better to use in ArcGIS. We met with our faculty advisor, Dr. Ames, who helped us clarify the next steps to Task 1 and some sources to find the streamflow data. As a team, we created a scoreboard to help each team member be more accountable for each task assigned to each team member. We added ESRI tutorials to our scoreboard.

4) Project status & summary

We are currently in the process of completing Task 1, data collection, and are exploring approach to Task 2, analysis. Assignments have been made to each team member to complete Task 1.